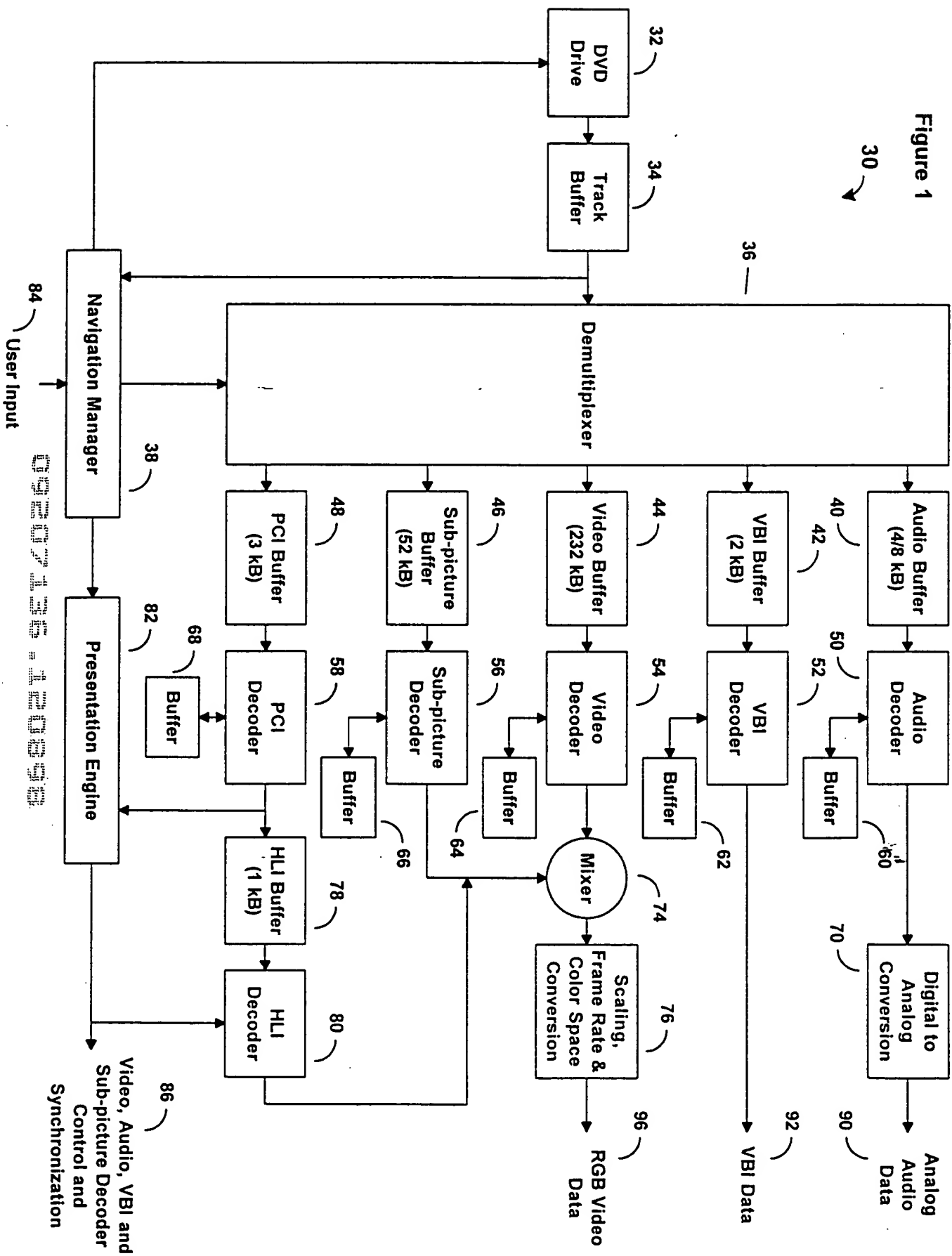


Figure 1



100

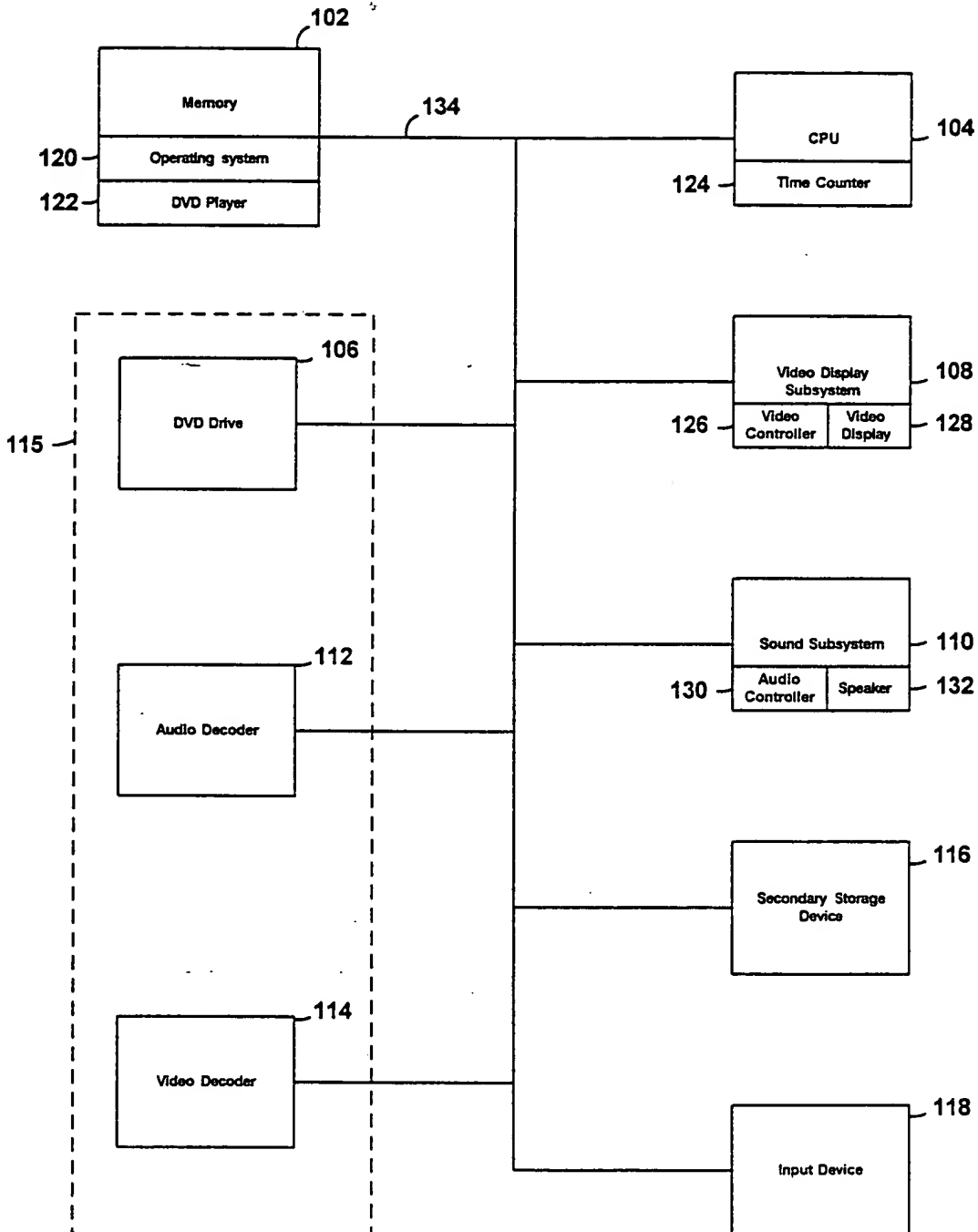
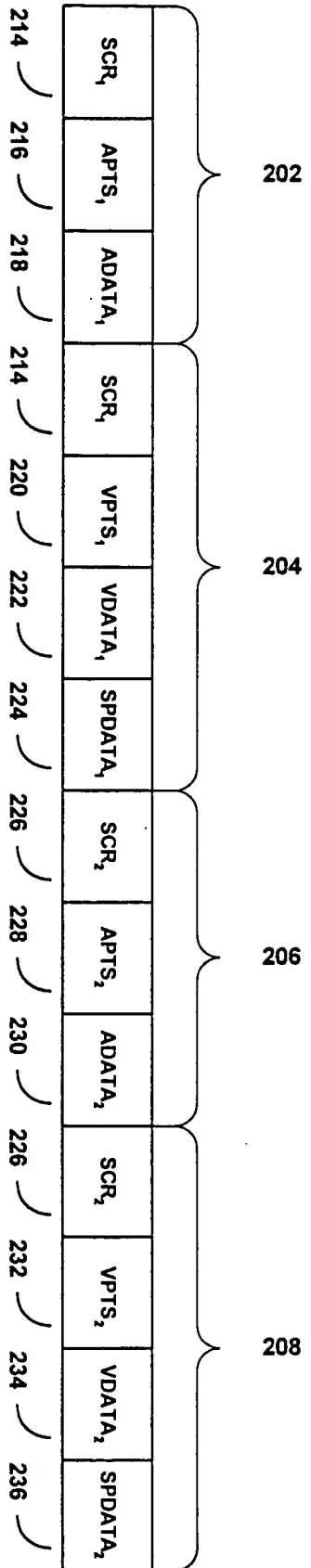


Figure 2

200



210

212

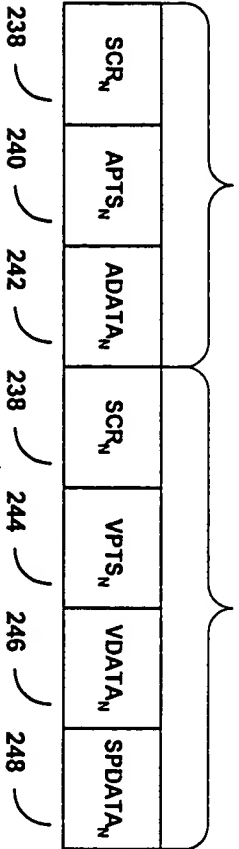


FIGURE 3

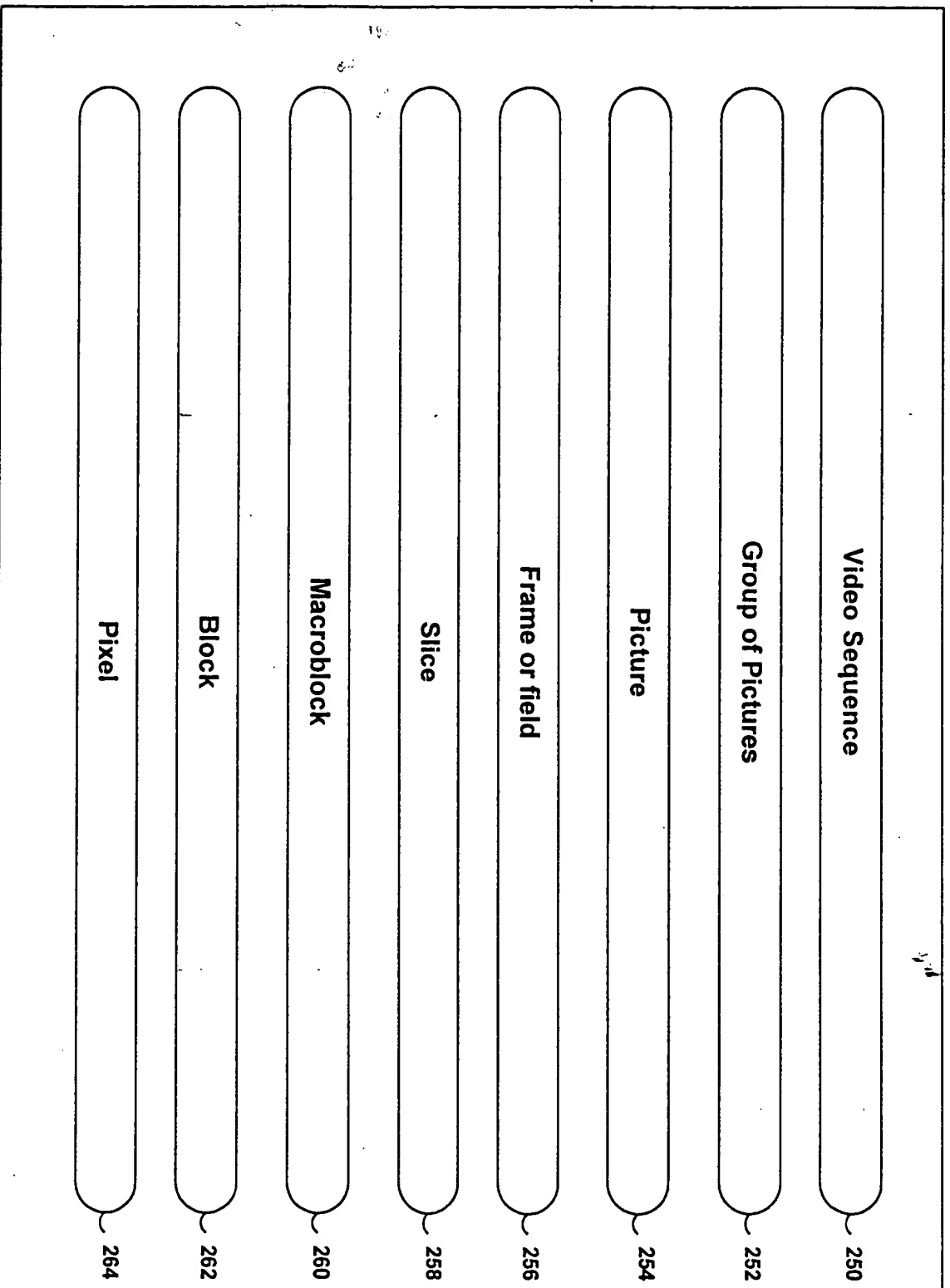


Figure 4

09007136 12000000

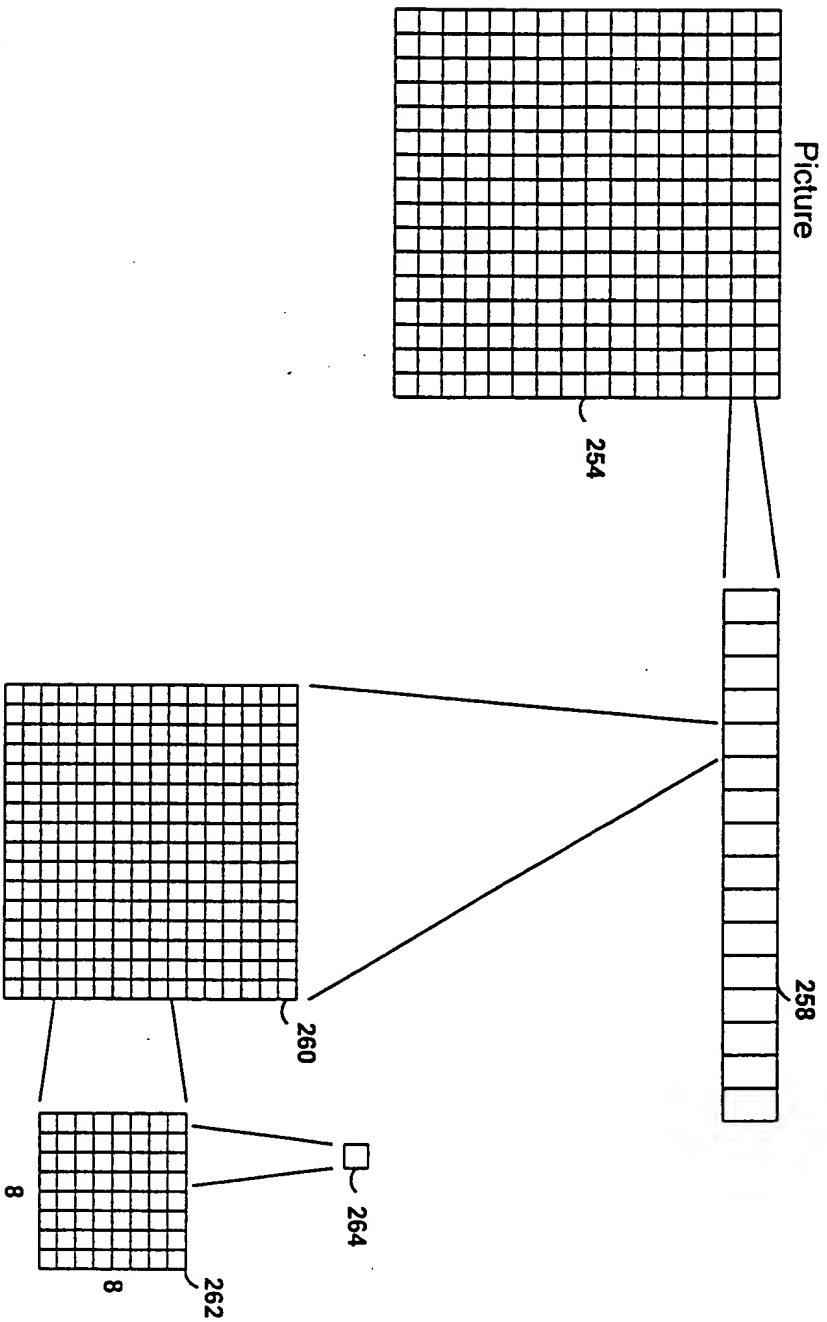


Figure 5

09607430 40000000

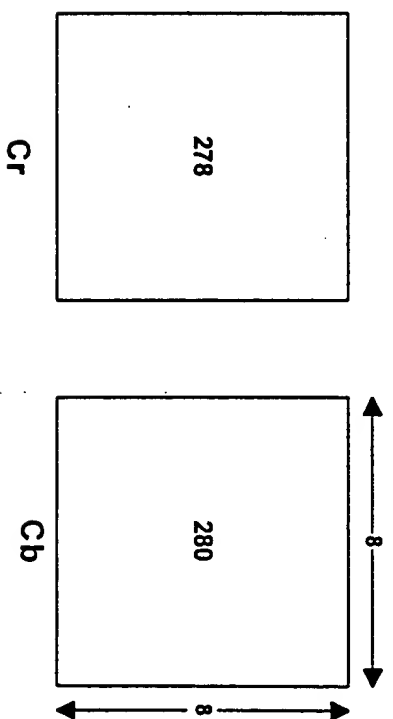
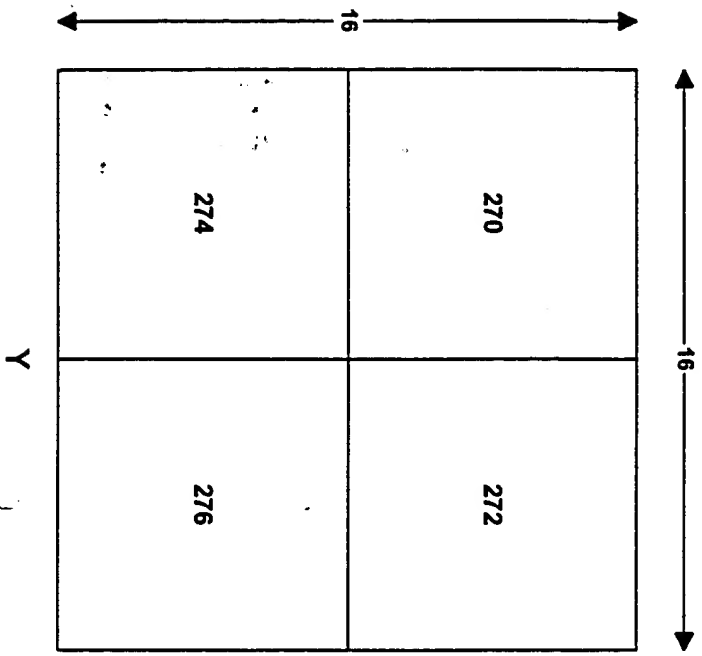
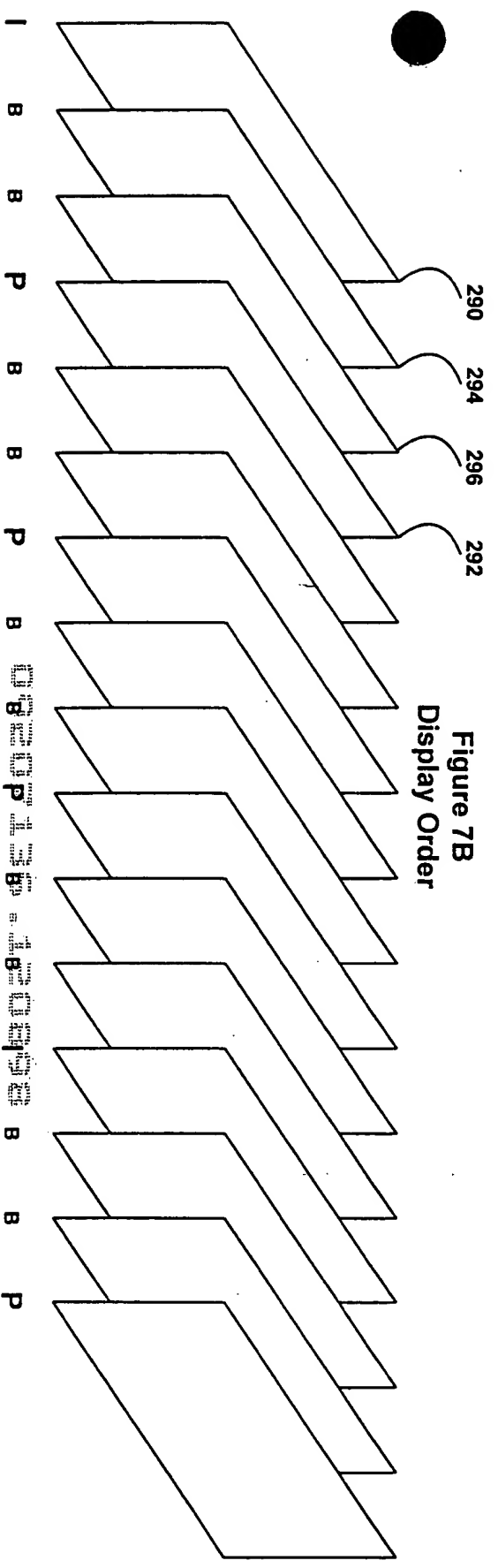
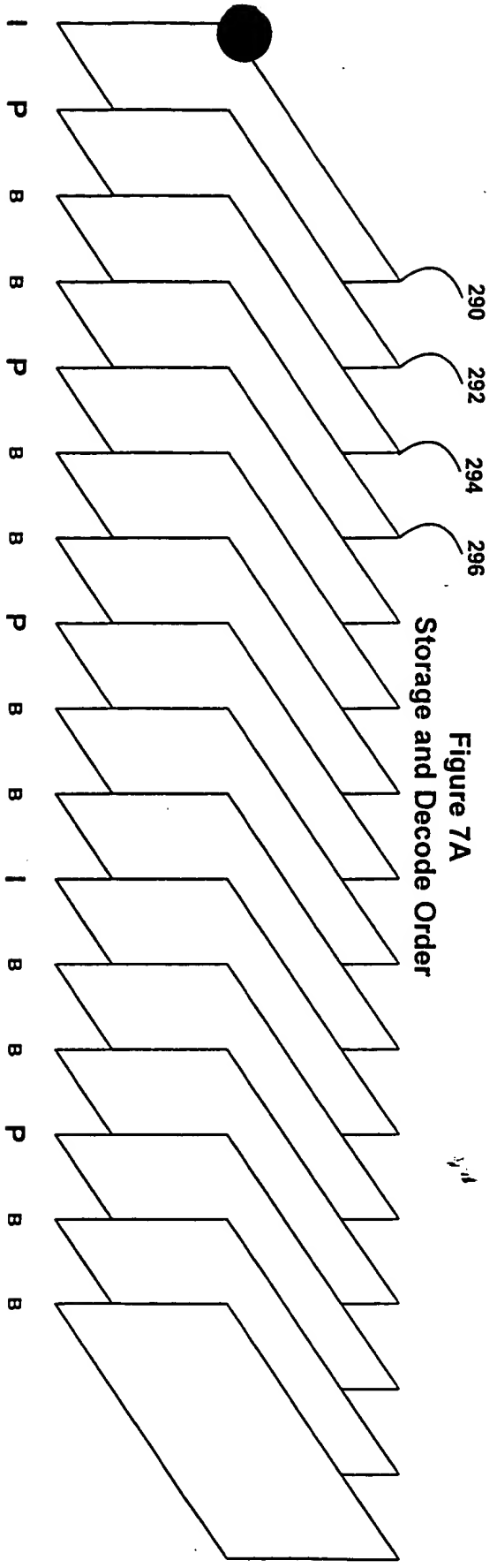


Figure 6

09207435 120293



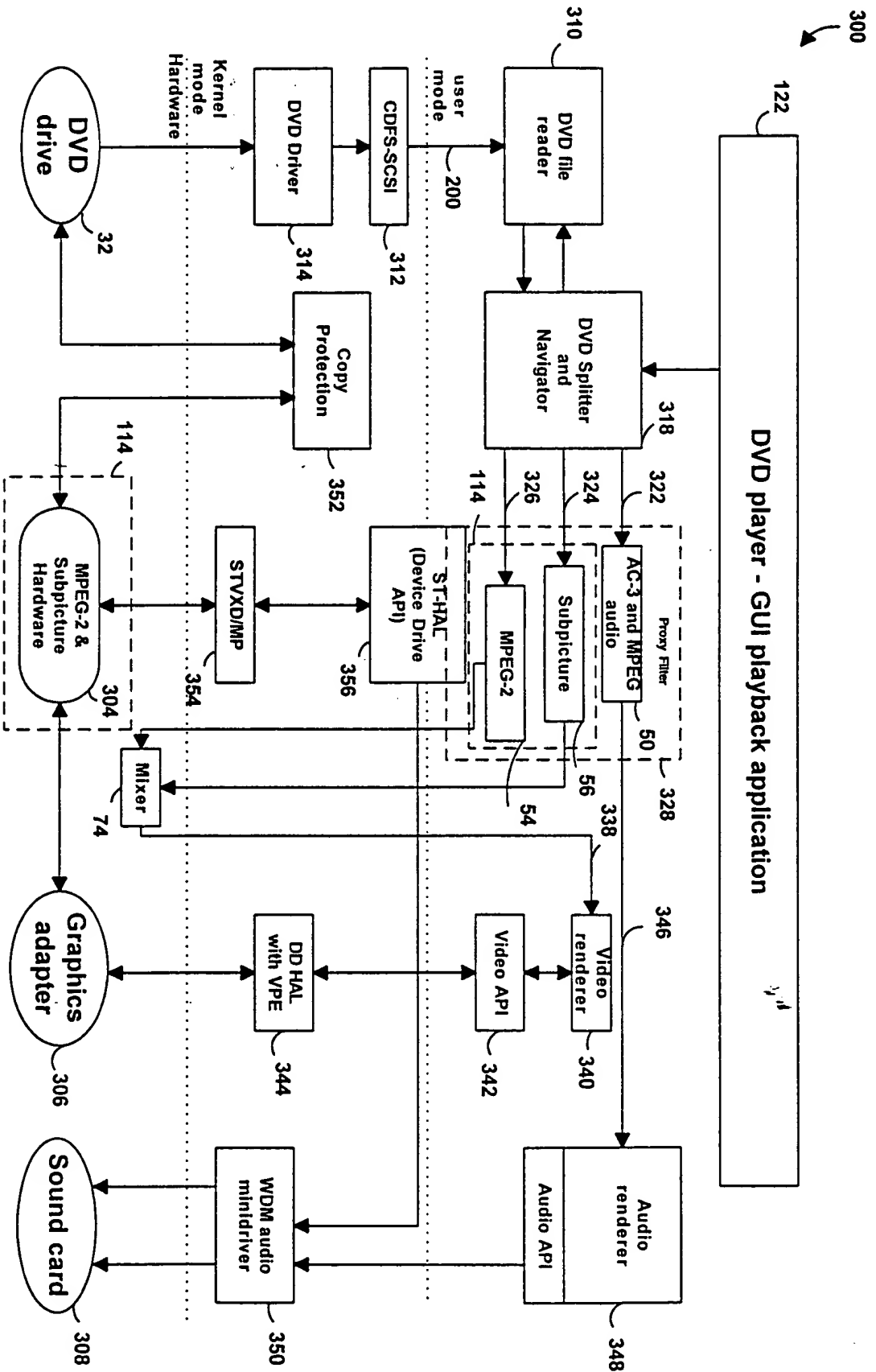


Figure 8

09207133 130393

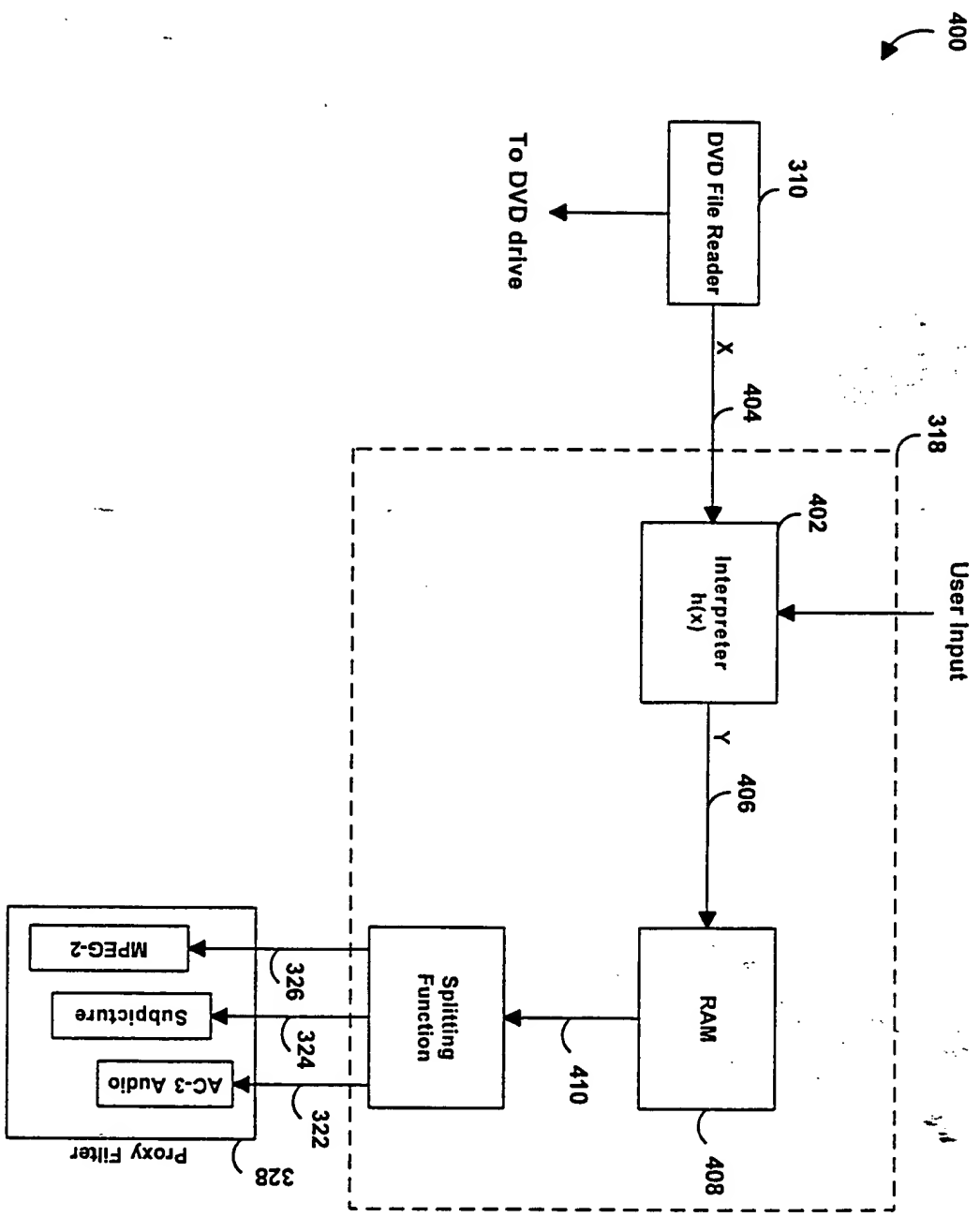


Figure 9

09207135 120293

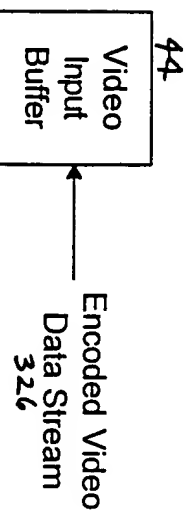
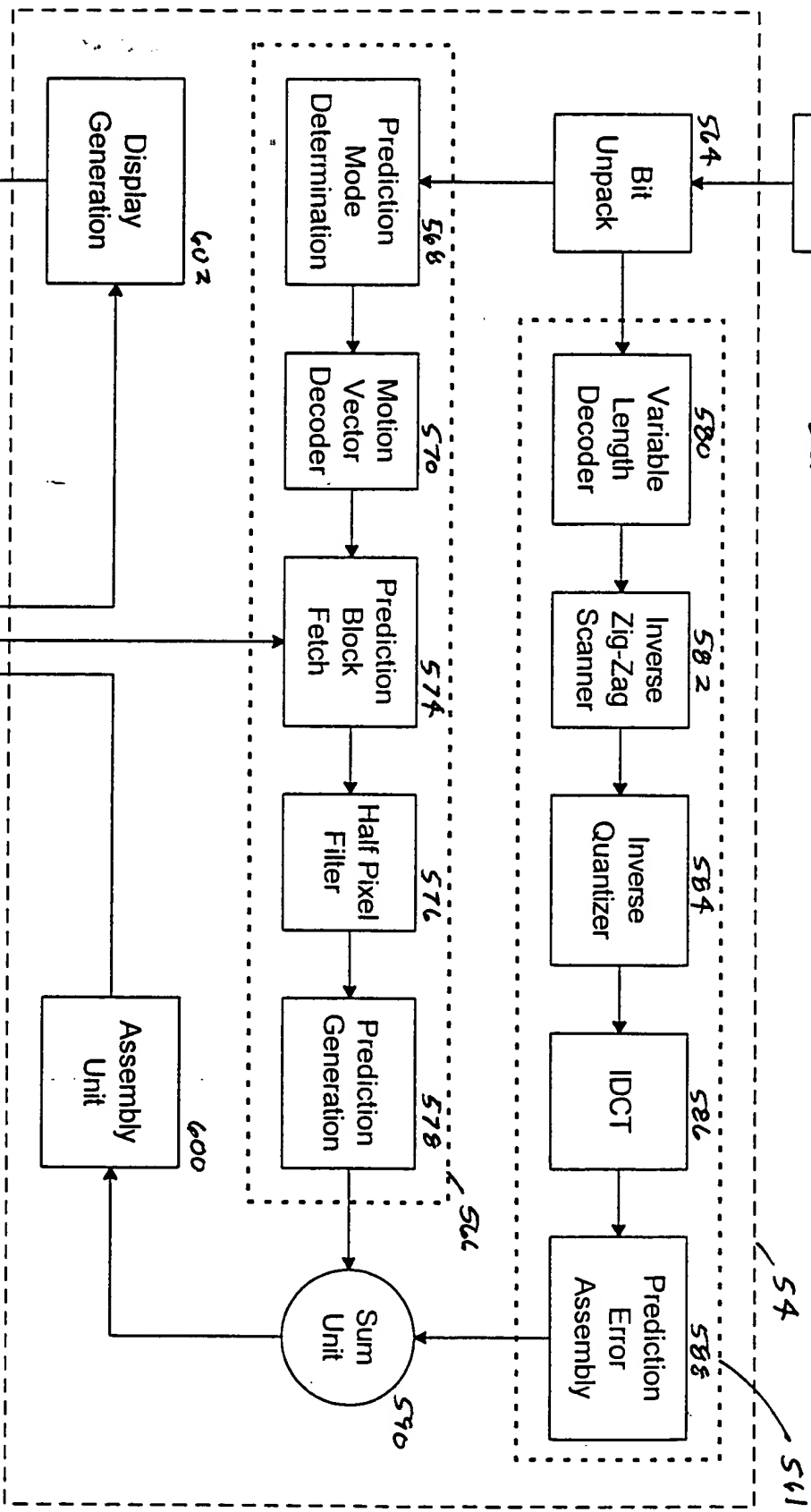
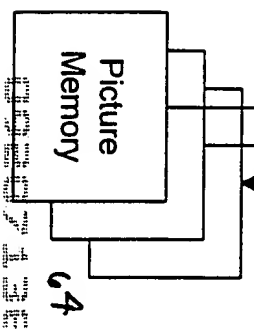
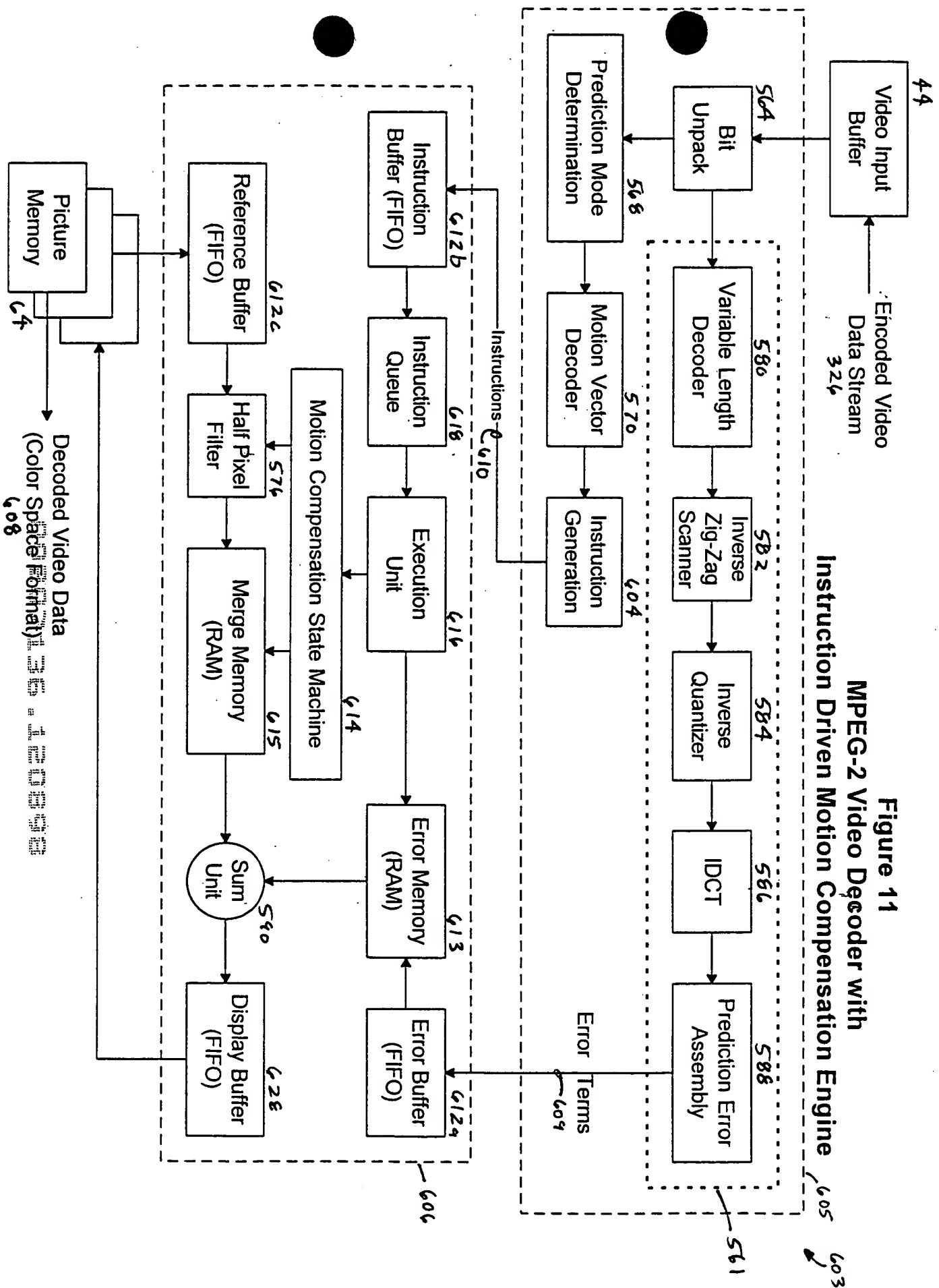


Figure 10
MPEG-2 Video Decoder



Decoded Video Data
(Color Space Format)
606





Motion Compensation Pipeline Instruction Queue

Load Instructions for 1st Y prediction block in macroblock
Merge Instructions for 2nd Y prediction block in macroblock
:
Merge Instructions for last Y prediction block in macroblock
Write Instructions for predicted Y macroblock
Load Instructions for 1st Cr prediction block in macroblock
Merge Instructions for 2nd Cr prediction block in macroblock
:
Merge Instructions for last Cr prediction block in macroblock
Write Instructions for predicted Cr macroblock
Load Instructions for 1st Cb prediction block in macroblock
Merge Instructions for 2nd Cb prediction block in macroblock
:
Merge Instructions for last Cb prediction block in macroblock
Write Instructions for predicted Cb macroblock
:

Figure 12

Instruction Structure for Predetection Blocks

33	28	27	26	21	20	19	18	17	16	13	12	11	10	8	7	6	5	4	2	1	0
Undefined	MCE	Coded Blk Pat	DCT Type	Color Cmp	INTL	PRAM Addr	PRAM Inc	Byte Ovl	Loop Filtr	HPH	HPV	Strp Cnt	Func								
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Figure 13

0907136 130090

Figure 14A
Video Decoder Flowchart
(Prior Art)

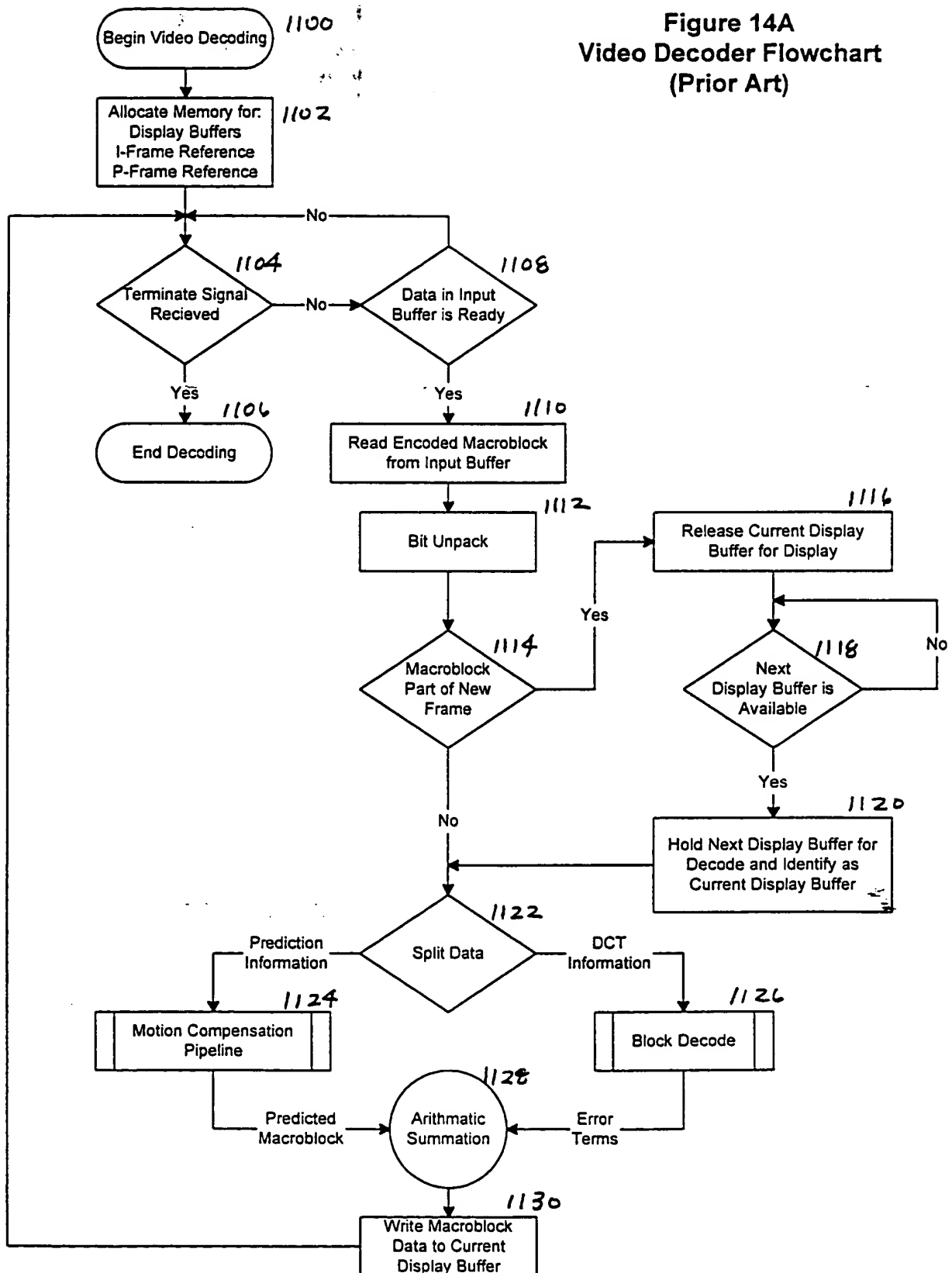


Figure 14B
Motion Compensation
Pipeline Flowchart
(Prior Art)

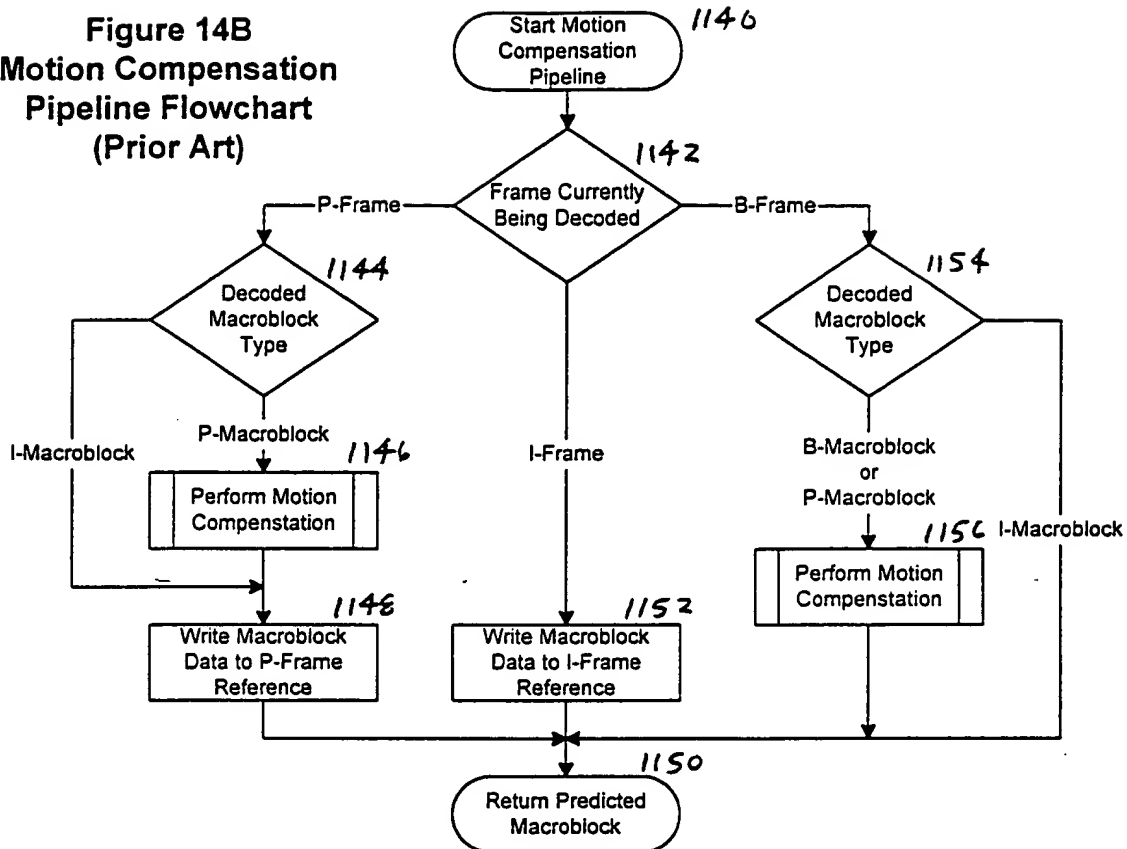


Figure 14C
Block Decode Flowchart
(Prior Art)

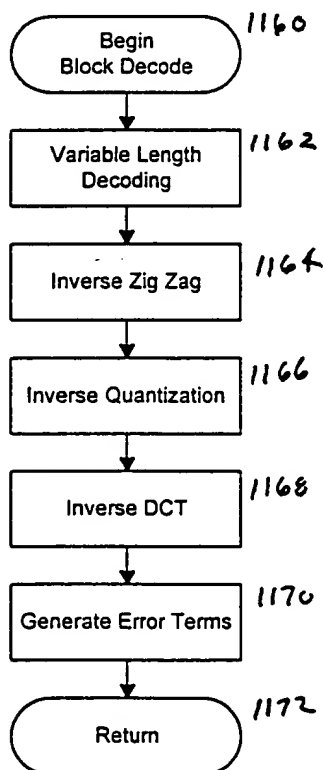


Figure 14D
Perform Compensation Flowchart
(Prior Art)

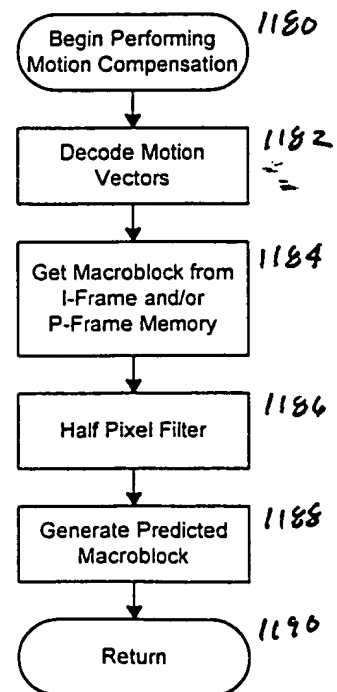


Figure 15A
Video Decoder Flowchart

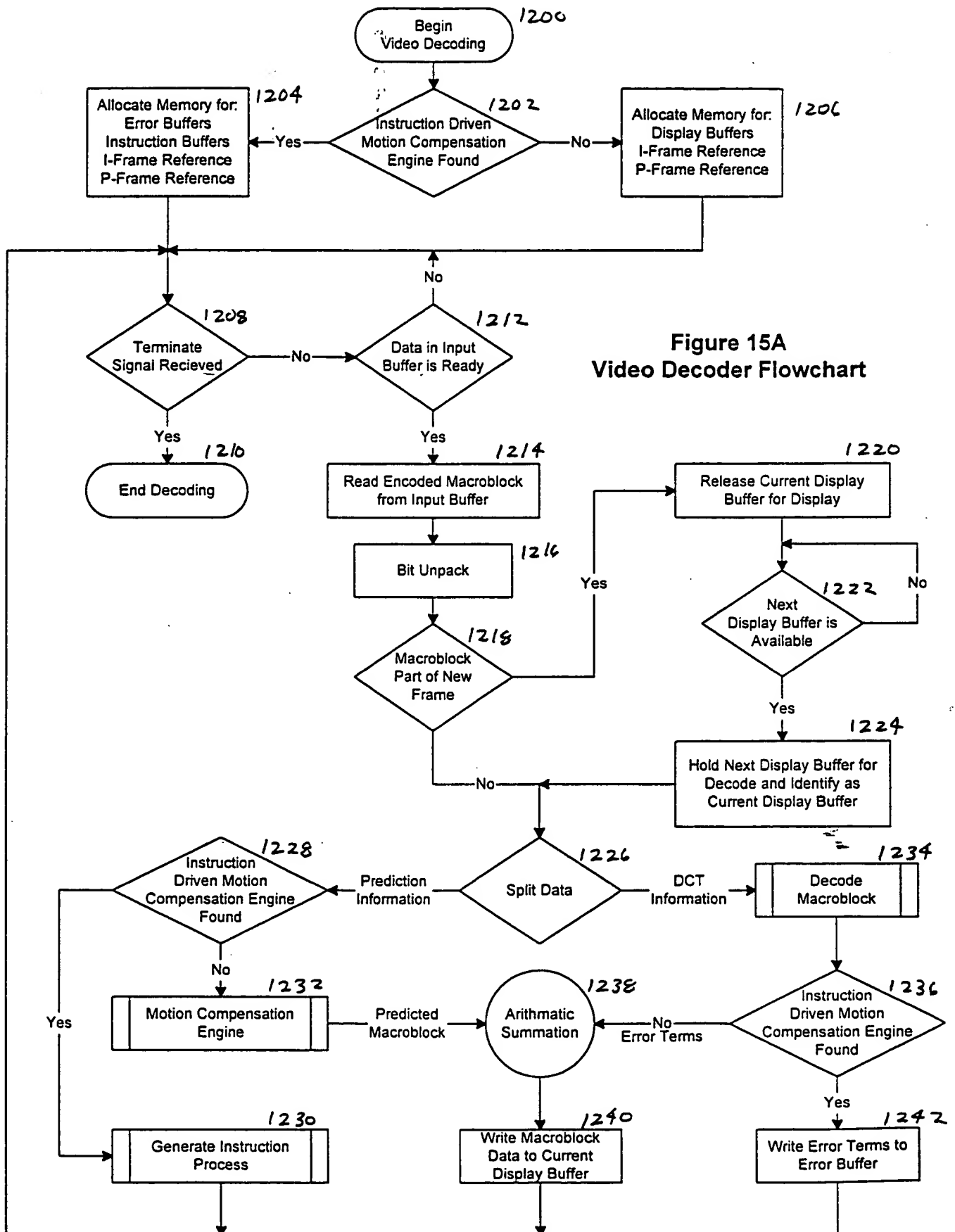


FIGURE 15B
Instruction Generation Flowchart

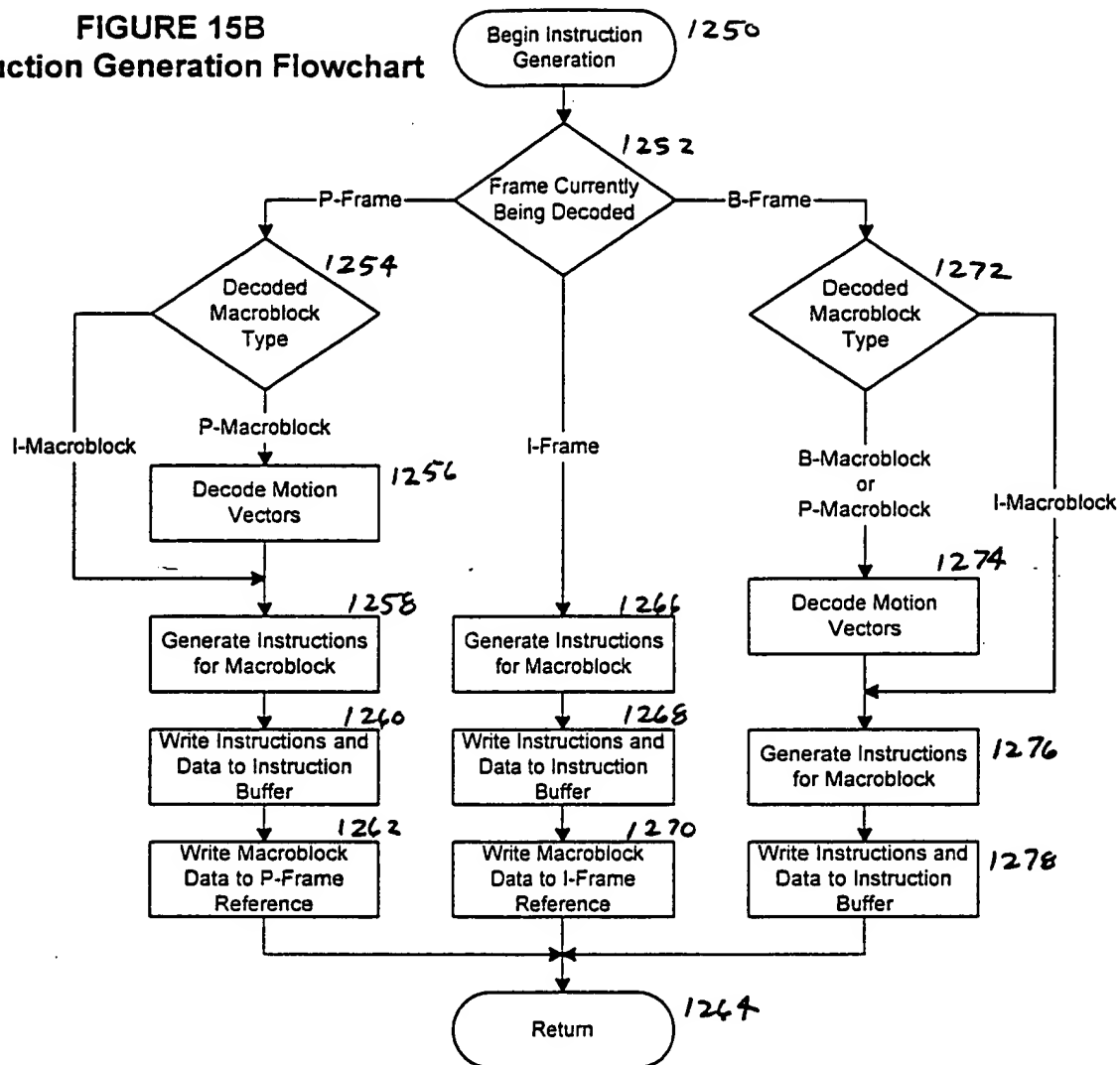


Figure 15C
Motion Compensation
Pipeline Flowchart

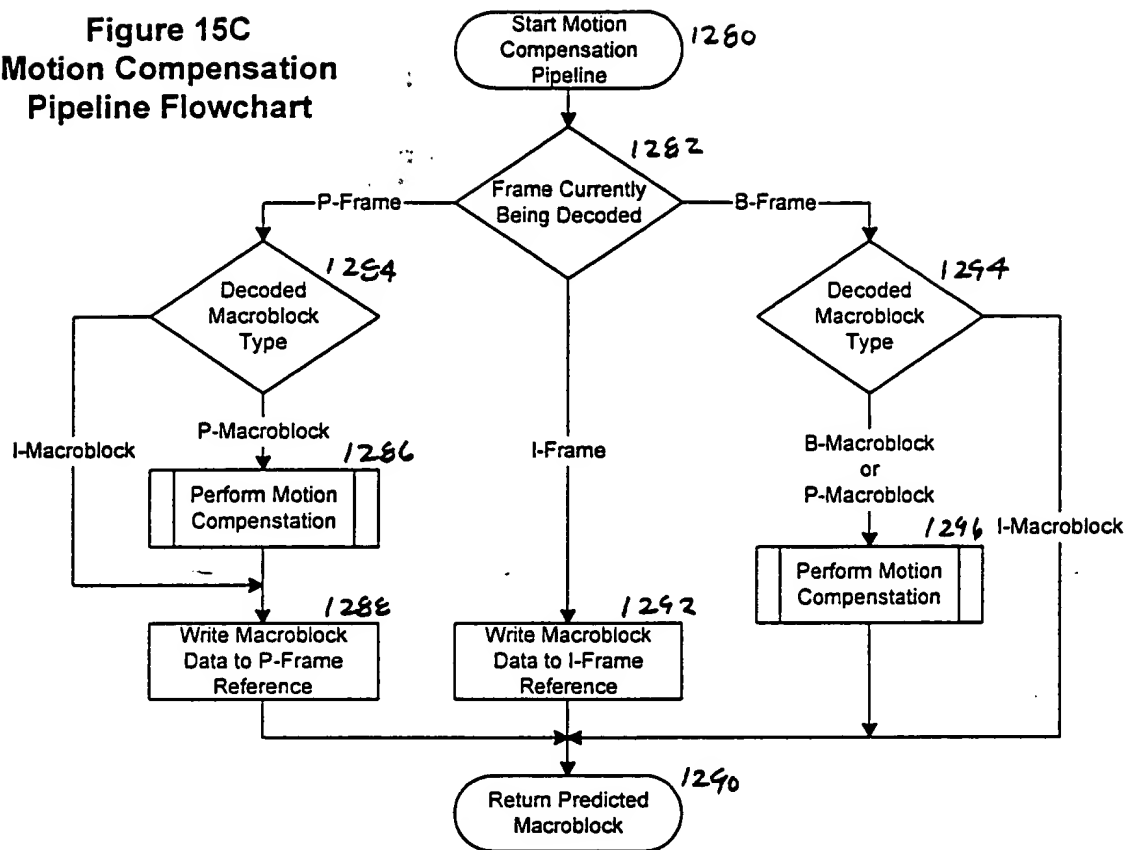


Figure 15D
Block Decode Flowchart

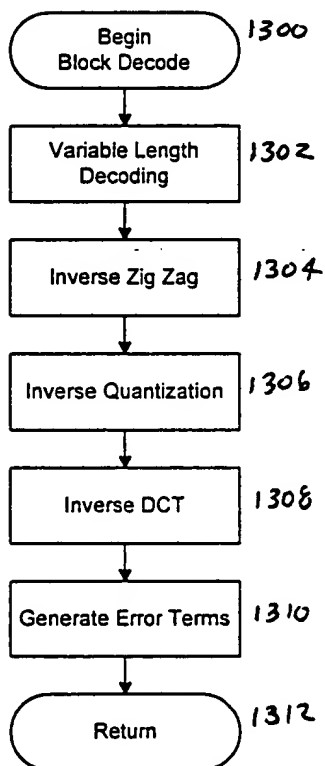


Figure 15E
Perform Motion Compensation
Flowchart

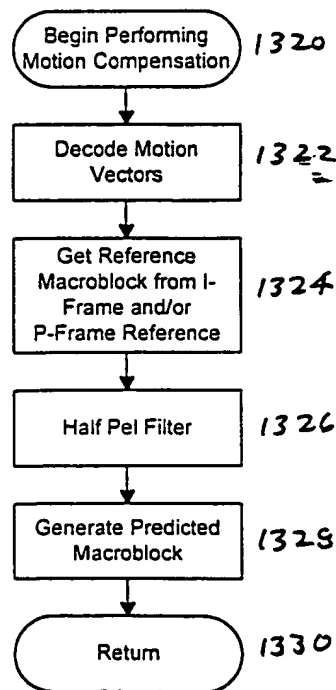


Figure 16A

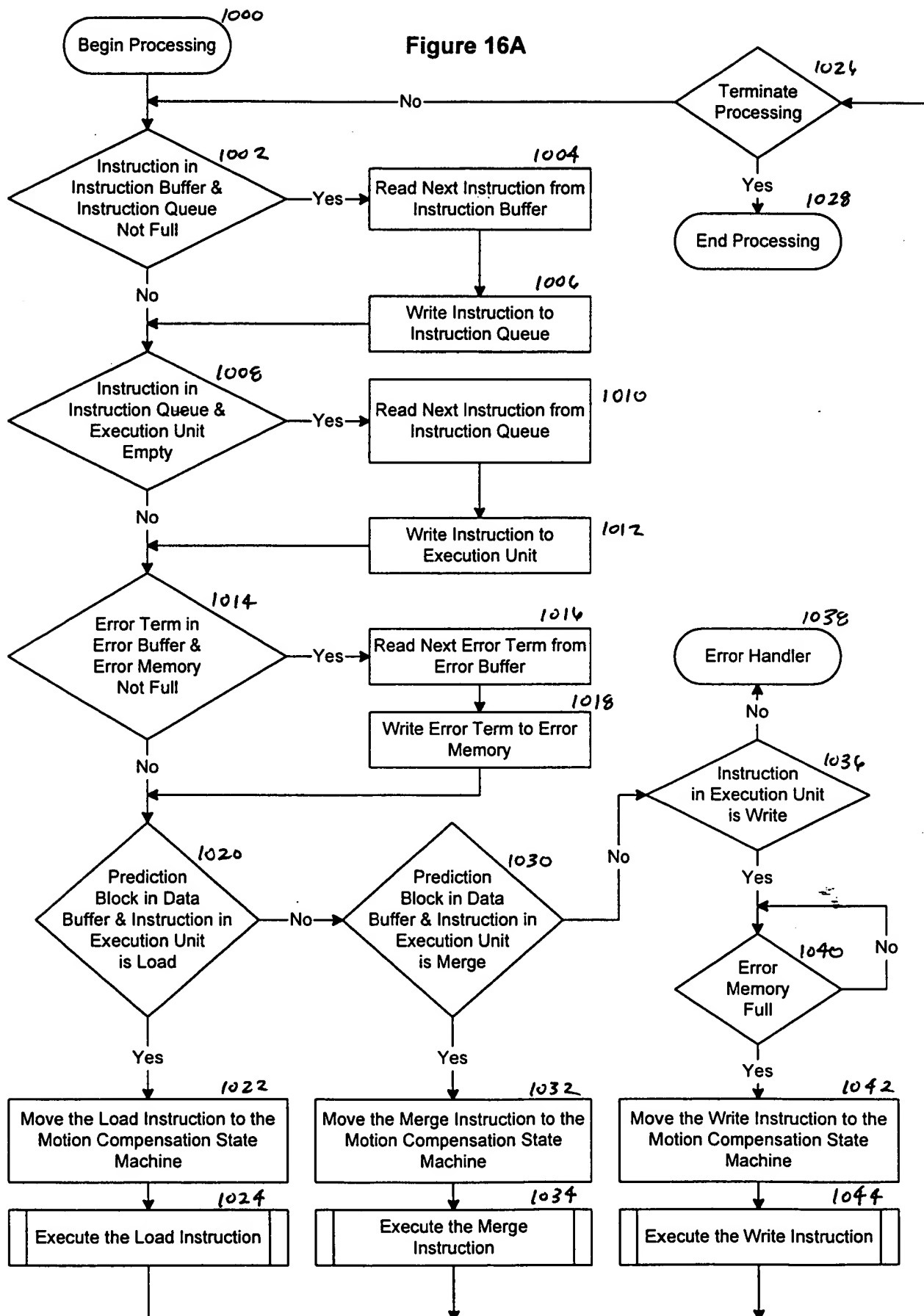


Figure 16B

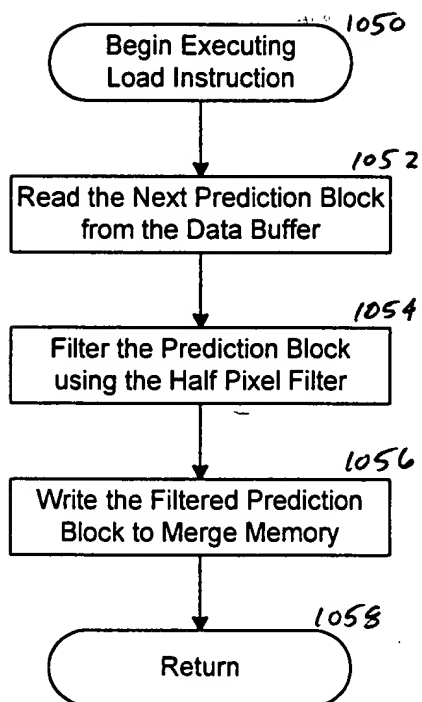


Figure 16C

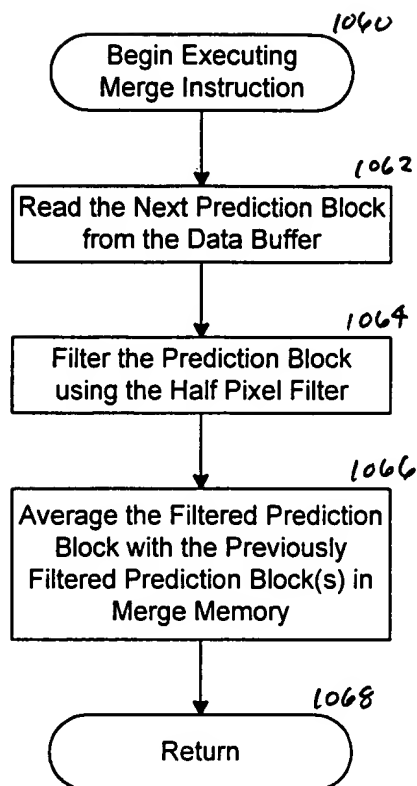
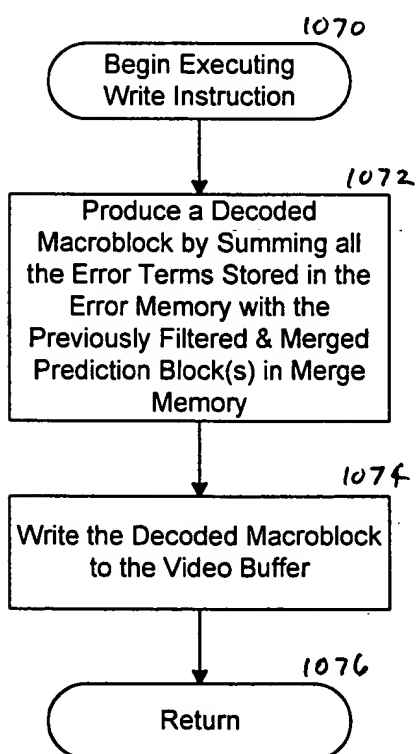


Figure 16D



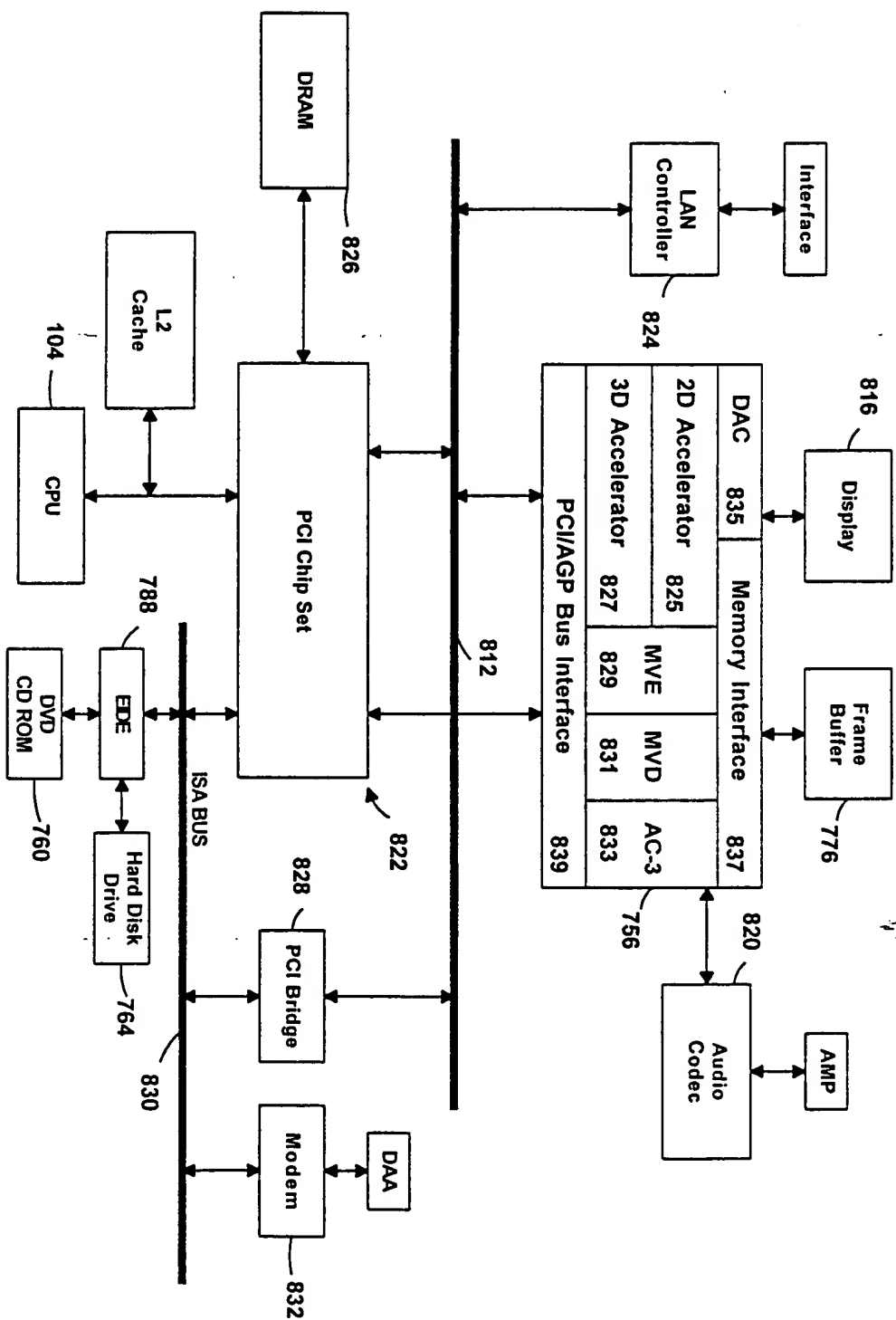


Figure 17

09207135 120893